

JAN 23 1925

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LEIMAN BROS.

**ROTARY
POSITIVE**

BLOWERS

AND

**VACUUM
PUMPS**

**THEY TAKE UP THEIR
OWN WEAR**

Tank prevents fluctuation
of air

OUTLET
threaded for stand-
ard iron pipe.

Enclosed stud in
piston holds wing
close to cylinder at
top, preventing loss
of air pressure.

INLET
threaded for
standard
iron pipe.

SHAFT

No compo-
sition tips to
require renewal
frequently

PISTON

Wing kept in constant contact with
cylinder by centrifugal force

Weights for regulating
pressure.

Relief Valve.

Wing and cylinder surface
become hard and glassy
like, insuring a perfect
and positive pressure
and vacuum.

Ring Self-Oiling
Bearings.

PATENTED

Big air space resulting from small piston
and curved wings.

LEIMAN BROS.

MANUFACTURERS

60-62 LISPENARD ST.

NEW YORK.

Makers of good Machinery for 35 years.

LEIMAN BROS.

Rotary
Positive

BLOWERS and VACUUM PUMPS

Powerful — Durable

Simple — Noiseless

TEN SIZES 1 to 338 cubic feet per minute.

1 ounce to 10 lbs. pressure. 1 to 20 inches vacuum

Higher degree of vacuum also secured with specially fitted machines.

LEIMAN BROS. Rotary Positive High Pressure Blowers and Vacuum Pumps will be found highly satisfactory for supplying air pressure or suction for countless purposes. Many new uses are suggesting themselves daily, so that many things formerly done by hand or mechanically are now being done more efficiently by means of air pressure or suction. The adoption of the use of air for most purposes however depends wholly or principally upon the positive and unfailing performance of its work by the blower or vacuum pump. Where this is not essential it is, nevertheless, a good quality for a blower to possess and when it costs the purchaser nothing extra it should be insisted upon when the purchase of a machine is in question. There are many purposes for which these blowers and vacuum pumps are nicely adapted and before deciding any proposition their ability should be investigated. It means money and time saved.

Some purposes for which Leiman Bros. **BLOWERS** and **VACUUM PUMPS** may be used;

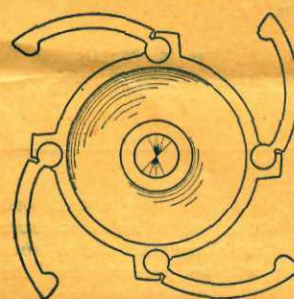
Heating Homes and Factories with Fuel Oil

Aerating	Solder Iron Heaters	Printing Presses
Agitating	Wrapping Machines	Mailing Machines
Singeing	Massaging Machines	Testing Gas
Branding	Laboratory Work	Fittings
Preheating	Blow Lamps	Removing Foul Air
Assaying	Blow Pipes	Supplying Fresh Air
Brazing	Glass Blowing	Melting
Annealing	Gas Pumping	Tempering
Soldering	Testing Meters	Blowing Dirt
Forging	Pressing Irons	from machines
Hardening	Calliopes	Glass Bending
Oil Furnaces	Milking Machines	Atomizing
Gas Furnaces	Steam Heating	Spraying
Coal Furnaces	Systems	Blowing Chips &
Suction Chucks	Paper Feeding	stampings from
Vacuum Cleaning	Devices	machines

And Many Kinds of Automatic Machines and Devices.

Simple Construction of
LEIMAN BROS.
BLOWERS and
Vacuum Pumps.

The wings are attached to the piston by a hinge-like device producing a very easy action, and by the rotating motion of the machine they are kept in constant contact with the inner cylinder wall. Each wing as it reaches the top is kept close to the inner cylinder wall by a pressure stud, thus preventing the air



Piston and Wings

from passing back into the machine, thereby insuring a perfect compression at all times.

The advantage gained by the simple construction is that the wings in constant operation, will wear in conformity with the inner cylinder wall and maintain a perfect fit and positive air pressure, even after long continued usage.

On the largest size the wings being necessarily larger and heavier, are provided with a steel guide on which the wing rests on its outward motion which counterbalances the weight of the wing and produces a smooth, easy action.

NO DELICATE PARTS

There are no delicate parts on these machines to get out of order. All parts are massive in construction and built to stand wear and strain. The operation of the machine depends upon natural forces without the aid of springs, tips on the wings made of foreign material to require constant renewal, etc., while all parts are interchangeable.

EFFICIENCY and CAPACITY

Probably the most important consideration in selecting a Blower or Vacuum Pump is the question as to how long it will last, or its ability to maintain its rated efficiency after long continued use.

The interior construction of LEIMAN BROS. BLOWERS and VACUUM PUMPS is so arranged that the wings take up their own wear. They are always in perfect contact with the cylinder however old the machine may be. This results in the highest efficiency, and they are the only blowers that will maintain this efficiency even after long continual use. The curved form of the wing, together with the small size of the piston makes the air chamber much larger, and makes the capacity greater than any other machine of the same size now on the market.

Many concerns are still using the old style blowers, which are not alone cumbersome and noisy, but the high speed necessary to get results requires considerable power, they are also a constant source of annoyance and expense. In many cases our small blowers will do all this work most efficiently and the money thus expended is soon made up in the great saving of power, time and trouble.

LOW PRICE OF THE BLOWERS and VACUUM PUMPS

LEIMAN BROS. BLOWERS and VACUUM PUMPS, while unequalled for efficiency, are lower in price than most of the so-called Positive Blowers and Vacuum Pumps now on the market and when considering the important item of repairs these machines are also far cheaper in the long run than any others.

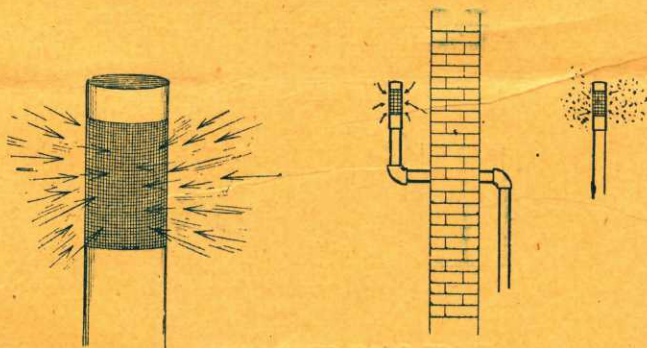
LOW COST OF MAINTENANCE

With few working parts and these of strong construction with an absence of springs and delicate parts to break or get out of order and without any tips of foreign material on the wings to require frequent renewal the cost of maintenance is greatly reduced.

THE INLET and OUTLET

An Inlet Pipe and Screen is furnished with size D, E, F, G and H Blowers. The screen prevents foreign matter from finding its way into the machine. In all cases, however, it is recommended that the inlet pipe be run out of a window or to any other source of clean air. The inlet is at the side of the machine, the outlet at the top.

The outlet pipe in all cases should be the size of the outlet and should be reduced only at the point where it is to be used. The outlet is at the top of the machine, while the inlet is at the side.



Inlet Screen, prevents foreign particles from entering machine.

Inlet Pipe, shown extended out doors for supply of clean air.

THE WINGS

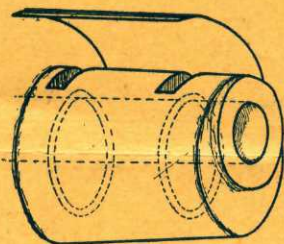
The wings of LEIMAN BROS. BLOWERS and VACUUM PUMPS excepting sizes No. 25 and No. 26, are curved, a feature which makes it possible for them to take up their own wear. No matter how old the machine may be or how much wear may machine may be or how much wear may take place on the cylinder or on the tips of the wings the fit is always perfect. Each wing is hinged to the piston and may be removed at will. They are interchangeable.

GAS TIGHT PUMPS

We furnish these machines with gas-tight bearings for certain purposes, when so ordered. These bearings are closed up on one end and have stuffing boxes on the pulley side. When so equipped the machines may be used for pumping gas not otherwise injurious to steel or casting iron. The pumps may then be used for a higher vacuum of air as well.—See special prices in price list.

RING, SELF-OILING BEARINGS

On all sizes except the No. 25 and 26 (which have solid bearings) the shaft bearings are furnished with a double ring-oiling device. The oil well is filled with machine oil and the rings on the shaft, as the latter revolves, dip into the oil carrying it up on to the shaft, thus insuring a well lubricated bearing and consequent easy operation.



Ring - Oiling Bearing

PULLEYS

Each machine is supplied with a pair of loose and tight pulleys by which the machine may be started and stopped while running from a shaft, excepting the smallest which has a single grooved pulley for round belt.

NOISELESS IN OPERATION

These machines, on account of the simplicity of construction and their ability to take up their own wear, are practically noiseless in operation. They may be placed where noise cannot be tolerated.

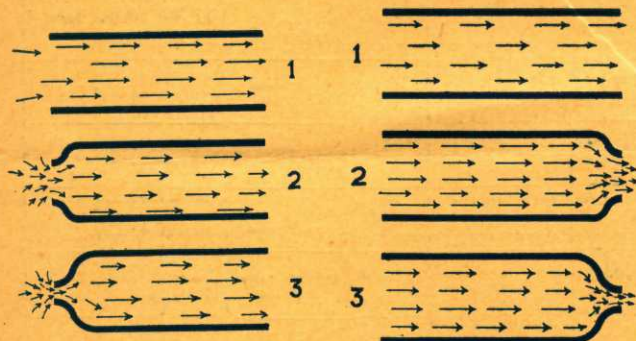
SLOW SPEEDS REQUIRE LITTLE POWER

LEIMAN BROS. BLOWERS and VACUUM PUMPS run at slow speeds and, being simply constructed with few working parts, they require very little more power for their operation than is actually required for simply compressing the air. In other words they deliver or displace more air at a higher pressure or vacuum with a smaller expenditure of power than any other machines known.

AIR PRESSURE, VACUUM and VOLUME

The machines are manufactured in nine sizes, ranging in capacity from 4 to 338 cubic feet per minute. They develop from 1 oz. to 10 lbs. pressure, or

a suction of 1 to 20 inches, and when using our vacuum oiling system as high as 26 to 28 inches may be created.



USING THE INLET
for Vacuum

USING THE OUTLET
for Pressure

No. 1 in each of the above diagrams shows a volume of air passing freely through a pipe creating neither vacuum in the one case nor pressure in the other

No. 2 in the first diagram shows the same volume of air being drawn through a reduced opening thus creating vacuum and in the second diagram being forced through a reduced outlet creating pressure.

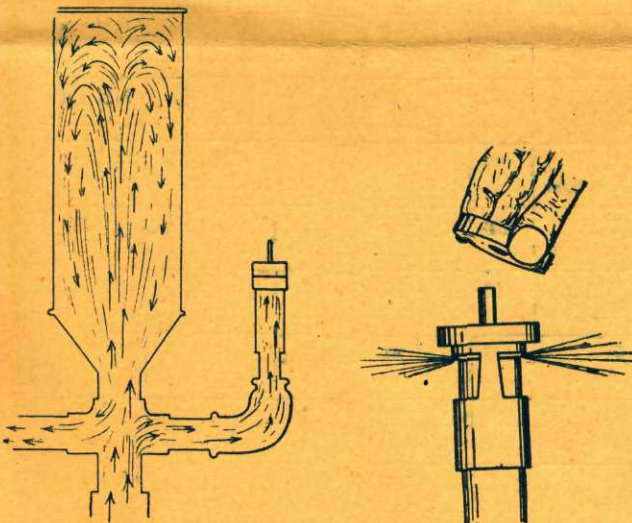
No. 3 in each case shows the inlet and the outlet still further reduced, thus further increasing the vacuum and the pressure.

From the above it is seen that the smaller the opening, the higher the pressure or suction will be. For steady operation, however, it is best not to drive the machine at its maximum capacity, and therefore a pressure of 4 lbs. or suction of 8 inches should not be exceeded except in special cases requiring short runs. The machines require little more power than would actually be required to simply compress the air, thus showing that the friction is very slight indeed.

The Air Pressure Reservoir and Pressure Relief Valve

All sizes of LEIMAN BROS. BLOWERS and VACUUM PUMPS, from size C to size H are furnished, with an air reservoir and pressure relief valve. The air

is delivered in a steady positive blast and the reservoir acts only as an additional guarantee of the steadiness of flow of the air while the valve regulates the pressure of the air. By placing one or two weights on the valve, or removing both, the pressure may be regulated to a nicety and adapted to any use. The valve is furnished with all but the three smallest sizes.



Action and course of air when using Reservoir and Valve How the Pressure Valve is regulated by use of weights

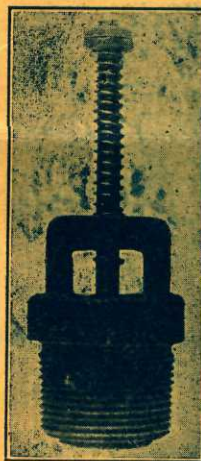
SELECTING A MACHINE

In selecting a machine the length of the pipe, number of turns, size, number and sizes of openings and degree of pressure or vacuum required all play

important parts. If you are unable to select the proper machine send the above particulars to us, naming the number and kind of appliances which are to be operated—giving the name of the manufacturer and any other data that may be found on the device itself.

THE VACUUM RELIEF VALVE

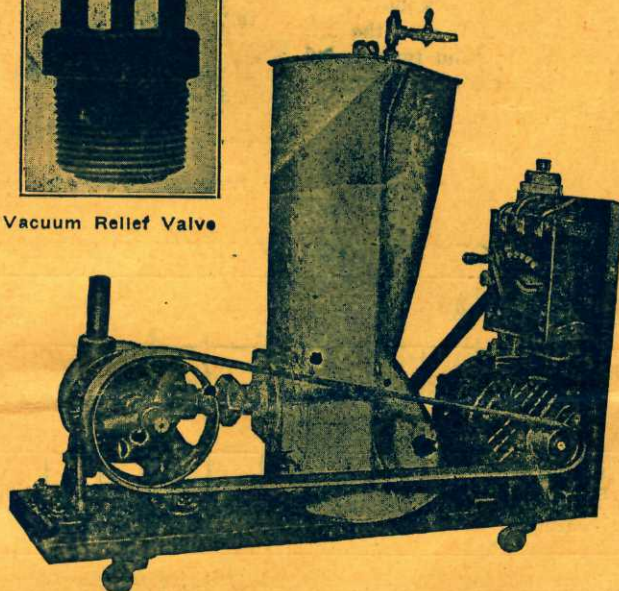
In using a machine for vacuum it is important to see that some means is provided to guard against damage to the pump or motor in case all openings are closed at once while in operation. In such a case the vacuum valve shown is used and when placed on the piping it opens automatically, preventing the vacuum from rising beyond a predetermined degree.



Vacuum Relief Valve

Vacuum Valves

For use with No. 25, 26	\$3.00
" " " A, B, C & D	
For use with E, F,	\$3.50
" " " G, H	



This picture shows the power of the smallest size vacuum pump we make. The Tank was cross-braced inside and is of heavy galvanized sheet iron. While we do not recommend the pumps for more than 20 in. vacuum, (except in special cases). This collapse occurred under test at 22 inches. A quarter horse power motor was used.

AUTOMATIC OILING SYSTEM

The cylinder should be oiled by means of the oil hole at the inlet, but the use of a sight feed oil cup is recommended. When the machine is put into service the oil cup is turned on and when the machine is stopped the oil cup should also be turned off. The automatic oiling system is used where the machines are required to work steadily under a vacuum or pressure. This system keeps the cylinder well oiled by its continuous feed of oil which starts and stops automatically as the machine is used. This system is furnished for oiling the cylinder only or for oiling both the cylinder and bearings in which case the latter are of the solid type sealed up to hold a high vacuum or pressure.



Automatic Oiling System

PRICES OF THE VACUUM OILING SYSTEM

SIZE OF PUMP	AA	A	B	C	D	E	F	G	H
SINGLE For Oiling Cylinder Only	\$15	15	15	15	18	21	27	36	54
DOUBLE For Oiling Cylinder and Bearings	\$20	20	20	20	24	28	36	48	72

Under 8 inches Vacuum or 4 lbs. Pressure use the Single Oiling System
Above 8 inches Vacuum or 4 lbs. Pressure use the Double Oiling System.

10110167 Pa. Appraisal Co.

Corded.

Size of Blower of Vacuum Pump	Cubic inches Delivered or Displaced per Revolution	Cubic Feet Delivered or Displaced per Minute	Maximum Speed Revolutions per Minute	Approximate HORSE POWER at mercury PRESSURE, or VACUUM 1 lb. pressure equals 2 inches vacuum							Pressure or Vacuum Secured by Decreasing the Size of the Outlet or Inlet	Diameter of Pulleys	Face of Pulleys	Size of Inlet and Outlet Standard Pipe Thread	APPROXIMATE				BE SURE TO SPECIFY EQUIPMENT WANTED				Floor Space, Inches
				Under 1 lb.	At 1 lb.	At 2 lbs.	At 3 lbs.	At 5 lbs.	At 8 lbs.	At 10 lbs.					Weight (Net)	Weight (Crated)	Weight (Boxed for Export)	Cubic Feet Measure	Price with Equipment as stated	Equipment Supplied with each size Blower	Price with Pulleys only	Price without any Equipment	
25..... Gas tight		1	800	1/12	1/12	1/8	1/8	1/8	1/6	1/6	These Blowers will maintain pressure from 1 oz. to 10 lbs. or vacuum from 1 to 20 inches. Higher vacuum secured by using our Vacuum Oiling System. The higher pressures for intermittent service only.	2 3/4		3/8 in.	5	6	6	1	17.40	1 Grooved pulley only	17.40 22.40	16.80 21.80	3x 4 1/2
26..... Gas tight	11 1/2	4	600	1/12	1/12	1/8	1/8	1/6	1/4	1/3		2 3/4		3/8 in.	10	13	13	1	19.40	1 Grooved pulleys only	19.40 24.40	18.80 23.80	3x 6
A..... Gas tight	17	6	600	1/10	1/10	1/8	1/6	1/4	1/3	1/2		3	1	1/2 in.	18	23	23	1	34.00	Loose and tight pulleys only	34.00 39.00	32.80 37.80	6x11
B..... Gas tight	30	10 1/2	600				1/4		1/2	3/4		4	1 1/2	3/4 in.	29	40	40	1	46.00	Pulleys and relief valve	45.20 50.20	44.00 49.00	8x12
C..... Gas tight	80	18 1/2	400			1/3	1/2	3/4	1	1 1/4		5	1 3/4	1 in.	48	64	86	2	60.00	Pulleys, valve and tank	58.50 63.50	56.70 61.70	9x14
D..... Gas tight	200	35	300	1/2	1/2	3/4	1	1 1/4	2	2 1/2		7	2 1/2	1 1/4 in.	94	130	158	4	90.00	Pulleys, valve, tank, Inlet pipe and screen	87.50 92.50	85.10 90.10	10x17
E..... Gas tight	400	58	250	1	1	1 1/4	1 1/2	2	3	4		12	2 3/4	1 1/2 in.	167	184	229	5 1/4	125.00	Same	121.75 126.75	118.25 123.25	13x25
F..... Gas tight	675	78 1/2	200	1 1/2	1 1/2	2	2 1/4	3	5	6 1/2		12	3 1/2	2 in.	226	243	290	7 1/2	160.00	Same	155.90 160.90	151.30 156.30	15x29
G..... Gas tight	1400	162	200		3	4	4 3/4	6 1/2	9	10 1/2	16	3 3/4	2 1/2 in.	406	442	512	14	295.00	Same	289.55 294.55	282.85 287.85	19x34	
H..... Gas tight	2592	338	200		8	9	10	13 3/4	19	24	20	5	4 in.	800	950	1052	35	485.00	Same	477.75 484.75	468.95 475.95	19x49	

SOME USERS

Westinghouse Elec. & Mfg. Co., Pittsburgh
Emerson Elec. & Mfg. Co., St. Louis, Mo.
Lufkin Rule Co., Saginaw, Mich.
Standard Oil Co., New York
General Electric Co., Lynn, Mass.
Western Electric Co., Hawthorne, Ills.
Board of Education, Newark, N. J.
Sprague Electric Works, Bloomfield, N. J.
Winchester Rep't'g Arms Co., New Haven
Remington Arms & Ammunition Co.
Whitehead & Hoag Co., Newark, N. J.
Miehle Printing Press Co., Chicago, Ills.
Bausch & Lomb Optical Co., Rochester
Board of Education, New York City
Harris Automatic Press Co., Niles, O.
National Lead Co., Brooklyn
Pittsburg Plate Glass Co., Pittsburg, Pa.
Victor Talking Mach. Co., Camden, N. J.
Amer. Lead Pencil Co., Hoboken, N. J.
Edison Chem. Works, Silver Lake, N. J.
Addressograph Co.
Aeroll Burner Co.
American Assembling Machine Co.
American Gas Machine Co.
Ford Motor Co.

American Laundry Machinery Co.
Mo. Anthony Fuel Oil Burner
John Foerst Fuel Oil Burner
Best Fuel Oil Burner
Sherman Fuel Oil Burner
Ballard Fuel Oil Burner
String Fuel Oil Burner
Alladin Fuel Oil Burner
Consolidated Gas Co., N. Y.
United Gas Improvement Co.
Public Service Gas Co.
Caloroll Fuel Oil Burner
Cross Feeder
Haller Bottle Filler
International Bottle Filler
Julian Gasoline Pump
Crawford Gasoline Pump
Chicago Fuel Oil Burner
Miller Saw Trimmer Feeder
Kelly Feeder
Duvall Feeder
Dexter Folder
Cottrell Feeder
Intertype Typesetting Machine
Pasco Fuel Oil Burner
And Many Others

NEW PROCESS HEATING COMPANY

Brooklyn, N. Y.

Having used your No. 26 and No. 27 pumps in all our installations in connection with our oil burners for the past two years, we find them very satisfactory in every respect.

WATTS BROS. TOOL WORKS

Turtle Creek, Pa.

The results we have obtained from your equipment have been very satisfactory and have solved all of our problems to a nicety for this class of work, i.e., cleanliness in Sand Blasting and continuous Air Volume capable of holding our Hardening Furnace to an exceedingly High Heat.

We might add that we were rather skeptical of your small and compact Blower being capable of solving our problems and for this reason it is all the more gratifying.

Should you desire to use this letter as a testimonial, you may do so with our heartiest approval and you may also feel at liberty to call on us for any desired recommendations

SIDE E

SIZE

25

26

A

B

C

D

E

F

G

H

SURE TO SPECIFY EQUIPMENT WANTED

	Equipment Sup- plied with each size Blower	Price with Pulleys only	Price without any Equipment	Floor Space, Inches
40	1 Grooved pulley only	17.40 22.40	16.80 21.80	3x 4½
40	1 Grooved pulleys only	19.40 24.40	18.80 23.80	3x 6
40	Loose and tight pulleys only	34.00 39.00	32.80 37.80	6x11
40	Pulleys and relief valve	45.20 50.20	44.00 49.00	8x12
40	Pulleys, valve and tank	58.50 63.50	56.70 61.70	9x14
40	Pulleys, valve, tank, inlet pipe and screen	87.50 92.50	85.10 90.10	10x17
	Same	121.75 126.75	118.25 123.25	13x25
	Same	155.90 160.90	151.30 156.30	15x29
	Same	289.55 294.55	282.85 287.85	19x34
	Same	477.75 484.75	468.95 475.95	19x49

HEATING COMPANY

York, N. Y.
and No. 27 pumps in all our instal-
oil burners for the past two
factory in every respect.

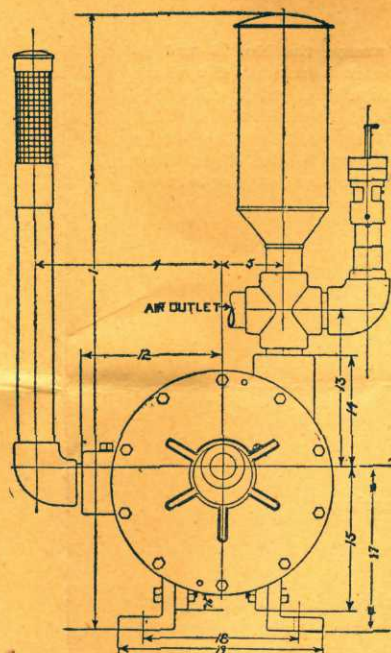
TOOL WORKS

Creek, Pa.

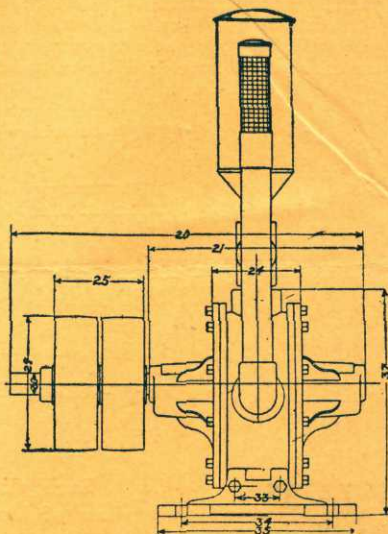
From your equipment have
solved all of our problems
work, i.e., cleanliness in Sand
Volume capable of holding our
readily High Heat.

rather skeptical of your small
able of solving our problems
the more gratifying.

this letter as a testimonial, you
approval and you may also feel
desired recommendations



SIDE ELEVATION OF BLOWERS



END ELEVATION OF BLOWERS

See figures following for above diagrams for
principal dimensions of Blowers and Vacuum
Pumps.

SIZE	1	4	5	12	13	14	15	16	17	18	19
25			3			14			11	2½	3
26			15			21			23	21	34
A			18	34		27	32	8	57	43	53
B			14	37	52	27	42	8	51	54	76
C	24½		18	48	62	31	46	8	68	63	83
D	29	9½	22	64	74	5	6	8	74	71	98
E	35	10	3	73	82	51	74	16	82	108	124
F	42	11½	21	82	102	7	81		98	12	14½
G	51	15	4½	105	13	88	10		11	15	18½
H	63	17½	4	115	164	97			115	16½	184

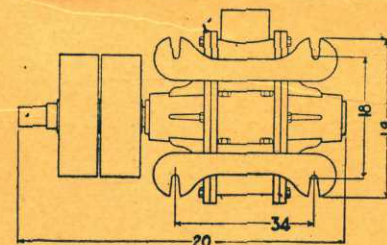
**MERKLE-KORFF GEAR COMPANY
CHICAGO, ILL.**

We have found your air pumps to be very satisfactory and
efficient and have found them to stand up wonderfully well. We
originally adopted your pump for our vacuum paper feed on our
Automatic Wrapping Machine for the purpose of picking up the
label by means of the vacuum which is created in the pump
and also to separate the labels by means of the air which is
produced by it, thus saving us the need of attaching a blower
in addition to a vacuum pump.

THE RANDOLPH PAPER BOX COMPANY

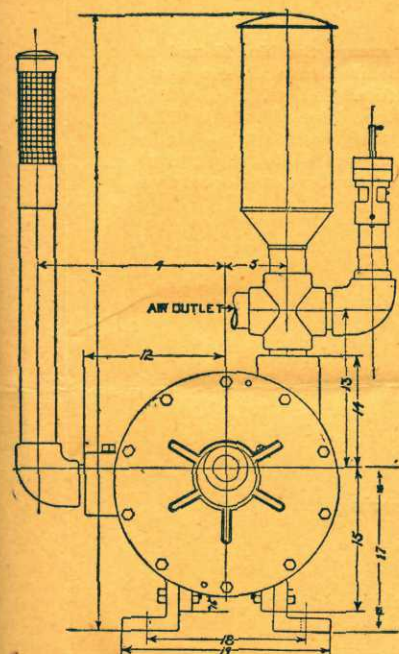
Richmond, Virginia.

Regarding the several rotary air pumps purchased from
you, we are glad to advise that these pumps are giving satis-
faction and have proved very useful in our work. We might
also state that these machines are working better than any
former vacuum pumps which we have used and they have
also increased production of our goods.

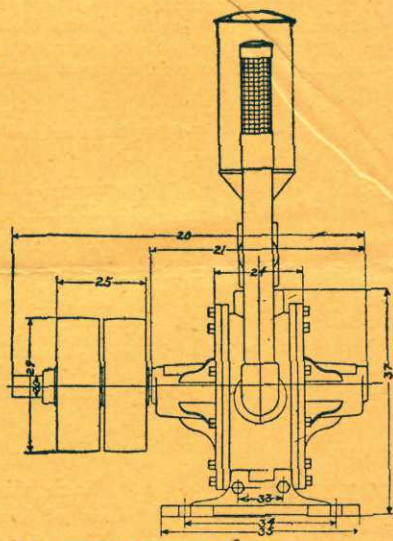


FLOOR PLAN OF BLOWERS

SIZE	20	21	24	25	29	30	33	34	35	37
25	4½	28	18						1	21
26	68	48	28	18	24	1		2	24	41
A	11	68	28	22	3	16	18	4	58	78
B	118	74	24	3	4	16	14	48	64	84
C	14	9	34	32	5	16	18	56	74	106
D	17	11½	48	42	7	1	24	8	104	124
E	25	174	68	52	12	14	31	92	122	131
F	28	19	7	62	12	16	34	92	122	168
G	33	22½	98	8	14	16	34	11	142	198
H	48	35½	198	102	20	2	132	132	162	214



SIDE ELEVATION OF BLOWERS



END ELEVATION OF BLOWERS

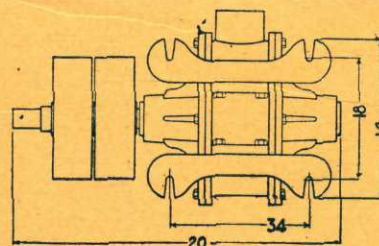
MERKLE-KORFF GEAR COMPANY CHICAGO, ILL.

We have found your air pumps to be very satisfactory and efficient and have found them to stand up wonderfully well. We originally adopted your pump for our vacuum paper feed on our Automatic Wrapping Machine for the purpose of picking up the label by means of the vacuum which is created in the pump and also to separate the labels by means of the air which is produced by it, thus saving us the need of attaching a blower in addition to a vacuum pump.

THE RANDOLPH PAPER BOX COMPANY

Richmond, Virginia.

Regarding the several rotary air pumps purchased from you, we are glad to advise that these pumps are giving satisfaction and have proved very useful in our work. We might also state that these machines are working better than any former vacuum pumps which we have used and they have also increased production of our goods.



FLOOR PLAN OF BLOWERS

See figures following for above diagrams for principal dimensions of Blowers and Vacuum Pumps.

SIZE	1	4	5	12	13	14	15	16	17	18	19
25			3			14			11	22	3
26			15			21			23	21	34
A			11	34		27	32	5	51	43	53
B			14	37	51	27	41	5	51	54	71
C	24		15	45	61	31	49	5	65	63	83
D	29	9	2	64	74	5	6	3	74	71	93
E	35	10	3	73	82	5	74	7	82	10	124
F	42	11	2	82	10	7	8		9	12	14
G	51	15	4	10	13	8	10		11	15	18
H	63	17	4	11	16	9			11	16	184

SIZE	20	21	24	25	29	30	33	34	35	37
25	4	2	13						1	21
26	6	4	2	15	21	2		2	24	41
A	11	6	25	22	3	11	18	4	58	78
B	11	7	23	3	4	11	14	43	64	82
C	14	9	33	32	5	13	18	51	73	10
D	17	11	47	42	7	1	21	8	103	124
E	25	17	67	52	12	14	35	92	122	131
F	28	19	7	62	12	15	34	92	122	16
G	33	22	9	8	14	16	34	11	142	193
H	48	35	19	10	20	2	13	13	162	214

LEIMAN BROS.

POSITIVE HIGH PRESSURE

BLOWERS

AND

VACUUM PUMPS

FOR ALL PURPOSES

EQUIPMENT OF BLOWERS

No. 25—One grooved pulley only.

No. 26 and A—Loose and tight pulleys only.

B—Loose and tight pulleys and relief valve.

C— " " " " " " " " " " " "

D— " " " " " " " " " " " "

E— " " " " " " " " " " " "

F— " " " " " " " " " " " "

G— " " " " " " " " " " " "

H— " " " " " " " " " " " "

Sizes No. 25, 26 and H

not shown

in above illustration

PATENTED



INTERIOR VIEW

All pumps have 4 curved wings excepting sizes No. 25 and 26, which have 2 flat wings.

THE PRESSURE RELIEF VALVES AND TANKS NOT BEING REQUIRED FOR VACUUM, THEY ARE NOT FURNISHED WHEN VACUUM PUMPS ARE ORDERED. SPECIFY IN EACH CASE THE EQUIPMENT DESIRED.

ELEUTHERIAN MILLS HISTORICAL LIBRARY

Trade Cat.



OIL CUPS for lubricating the blower cylinder

Up to size D \$1.50

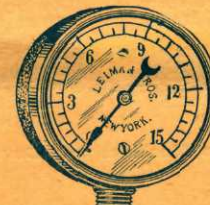
for sizes E & F, \$2.00

for sizes G & H, \$3.00

(Use 2 on size H blower) --



Bearing Oil for ring oilers or for use with Auto-matic Oiling Systems 70c half gallon can Cylinder Oil for use with Oil Cups 70c half gallon can (An extra charge for packing to ship)



Gauges for Vacuum or Pressure \$3.00

BUESCHER BAND INSTRUMENT CO. Elkhart, Indiana.

We have installed in our plant here five of your rotary air pumps which have been in operation from one year to five and have not as yet had one minute's trouble with any of them.

Two of these pumps are used in connection with your sand blast machines which have also given us good service.

Because of the service these rotary air pumps have given us we do not hesitate to recommend them to anyone for the class of work they are intended.

STANDARD AUTOMATIC MACHINE COMPANY Rochester, N. Y.

In order for a vacuum filling machine to function it is necessary that a good, reliable pump be employed. We use yours.

For STEAM HEATING—

We are using what is known as an air line system and we are using oil for fuel. The object of using a vacuum pump is to exhaust the air in the radiators and steam lines so that the steaming of the boiler will be prompt and the efficiency of the system enhanced. We are able to run on 8 to 10 pounds vacuum most of the time without difficulty.

CHAS. FLETCHER

Kalamazoo, Mich.